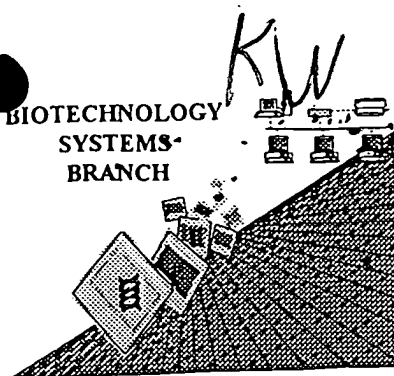


## RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY  
SYSTEMS-  
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/868118  
Source: PCT 09  
Date Processed by STIC: 10/29/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.  
PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)  
PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW:

### Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>

# Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/868118
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPIIA" HEADERS, WHICH WERE INSERTED BY PI		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ Patentln 2.0 "bug"	A "bug" in Patentln version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, Patentln would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped.  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number 000	
9 <input checked="" type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ Patentln 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

PCT09

## RAW SEQUENCE LISTING

DATE: 10/29/2001

PATENT APPLICATION: US/09/868,118

TIME: 13:09:41

Input Set : A:\002.00150.txt

Output Set: N:\CRF3\10292001\I868118.raw

3 <110> APPLICANT: Thorner, Jeremy  
 4 Alessi, Dario  
 5 Torrance, Pamela  
 6 Casamayor, Antonio  
 10 <120> TITLE OF INVENTION: Screening Methods  
 14 <130> FILE REFERENCE: 002.00150(MEDY/P22233PC)  
 18 <140> CURRENT APPLICATION NUMBER: 09/868,118  
 20 <141> CURRENT FILING DATE: 1999-12-14  
 24 <160> NUMBER OF SEQ ID NOS: 67  
 28 <170> SOFTWARE: PatentIn Ver. 2.0  
 32 <210> SEQ ID NO: 1  
 34 <211> LENGTH: 11  
 36 <212> TYPE: PRT  
 38 <213> ORGANISM: Artificial Sequence ✓  
 42 <220> FEATURE:  
 44 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide ✓  
 48 <400> SEQUENCE: 1  
 50 Gly Arg Pro Arg Thr Ser Ser Phe Ala Glu Gly  
 52 1 5 10  
 58 <210> SEQ ID NO: 2  
 60 <211> LENGTH: 8  
 62 <212> TYPE: PRT ✓  
 64 <213> ORGANISM: Artificial Sequence  
 68 <220> FEATURE:  
 70 <223> OTHER INFORMATION: Description of Artificial Sequence:motif ✓  
 74 <400> SEQUENCE: 2  
 W--> 76 Thr Phe Cys Gly Thr Xaa Glu Tyr *Errored: Unknown amino acids must be  
 78 1 5 enumerated in fields 221, 222 and 223  
 84 <210> SEQ ID NO: 3 as "variant", location, and possible values  
 86 <211> LENGTH: 6 for Xaa.  
 88 <212> TYPE: PRT ✓  
 90 <213> ORGANISM: Artificial Sequence  
 94 <220> FEATURE:  
 96 <223> OTHER INFORMATION: Description of Artificial Sequence:motif ✓  
 100 <400> SEQUENCE: 3  
 W--> 102 Phe Xaa Xaa Phe Ser Phe *Errored: Unknown amino acids must be  
 104 1 5 enumerated in fields 221, 222 and 223  
 110 <210> SEQ ID NO: 4  
 112 <211> LENGTH: 70  
 114 <212> TYPE: DNA  
 116 <213> ORGANISM: Artificial Sequence  
 120 <220> FEATURE:  
 122 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓  
 126 <400> SEQUENCE: 4  
 128 cgggatccgc caccatggag cagaagctga tctctgaaga ggacttgtat ttgataagga 60  
 130 taattccatg 70  
 134 <210> SEQ ID NO: 5**

The type of errors shown exist throughout  
 the Sequence Listing. Please check subsequent  
 sequences for similar errors.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,118

DATE: 10/29/2001

TIME: 13:09:41

Input Set : A:\002.00150.txt

Output Set: N:\CRF3\10292001\I868118.raw

136 <211> LENGTH: 39  
138 <212> TYPE: DNA  
140 <213> ORGANISM: Artificial Sequence  
144 <220> FEATURE:  
146 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓  
150 <400> SEQUENCE: 5  
152 ataagaatgc ggccgcttac gacctcttcg attttgcag 39  
156 <210> SEQ ID NO: 6  
158 <211> LENGTH: 76  
160 <212> TYPE: DNA  
162 <213> ORGANISM: Artificial Sequence  
166 <220> FEATURE:  
168 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓  
172 <400> SEQUENCE: 6  
174 ataagaatgc ggccgctgcc accatggagc agaacctgtc tctgaagagg acttgggaaa 60  
176 taggtcttga cagagg 76  
180 <210> SEQ ID NO: 7  
182 <211> LENGTH: 38  
184 <212> TYPE: DNA  
186 <213> ORGANISM: Artificial Sequence  
190 <220> FEATURE:  
192 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓  
196 <400> SEQUENCE: 7  
198 ataagaatgc ggccgctcat ttttcatctg tccgtgtc 38  
202 <210> SEQ ID NO: 8  
204 <211> LENGTH: 60  
206 <212> TYPE: DNA  
208 <213> ORGANISM: Artificial Sequence  
212 <220> FEATURE:  
214 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓  
218 <400> SEQUENCE: 8  
220 ggatccgccca ccatgtaccc atacgatgtg ccagattacg cctattcttg gaagttaaag 60  
224 <210> SEQ ID NO: 9  
226 <211> LENGTH: 28  
228 <212> TYPE: DNA  
230 <213> ORGANISM: Artificial Sequence  
234 <220> FEATURE:  
236 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓  
240 <400> SEQUENCE: 9  
242 ggtaccctat ctaatgcttc taccttgc 28  
246 <210> SEQ ID NO: 10  
248 <211> LENGTH: 59  
250 <212> TYPE: DNA  
252 <213> ORGANISM: Artificial Sequence  
256 <220> FEATURE:  
258 <223> OTHER INFORMATION: Description of Artificial Sequence:pcr primer ✓  
262 <400> SEQUENCE: 10  
264 aagtaacatc ttgatgaacc gagaagccac taactagttt tgtgcaccat aattttccg 59  
268 <210> SEQ ID NO: 11

## RAW SEQUENCE LISTING

DATE: 10/29/2001

PATENT APPLICATION: US/09/868,118

TIME: 13:09:41

Input Set : A:\002.00150.txt

Output Set: N:\CRF3\10292001\I868118.raw

270 <211> LENGTH: 56  
272 <212> TYPE: DNA  
274 <213> ORGANISM: Artificial Sequence  
278 <220> FEATURE:  
280 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer ✓  
284 <400> SEQUENCE: 11  
286 taagtagctt gatgaaaaca ttagataaaa ttactaatta ccgtcgagtt caagag 56  
290 <210> SEQ ID NO: 12  
292 <211> LENGTH: 59  
294 <212> TYPE: DNA  
296 <213> ORGANISM: Artificial Sequence  
300 <220> FEATURE:  
302 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer ✓  
306 <400> SEQUENCE: 12  
308 gcacgtgtac ttgcttgaat actgctacta taccattaat atggtactga gaggcacc 59  
312 <210> SEQ ID NO: 13  
314 <211> LENGTH: 61  
316 <212> TYPE: DNA  
318 <213> ORGANISM: Artificial Sequence  
322 <220> FEATURE:  
324 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer ✓  
328 <400> SEQUENCE: 13  
330 tattatgcat tacactttcc ccttcacat gtcttacata tgcacccgca ggcaagtga 60  
332 c 61  
336 <210> SEQ ID NO: 14  
338 <211> LENGTH: 18  
340 <212> TYPE: DNA  
342 <213> ORGANISM: Artificial Sequence  
346 <220> FEATURE:  
348 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer ✓  
352 <400> SEQUENCE: 14  
354 tgccctcgaa gacatggc 18  
358 <210> SEQ ID NO: 15  
360 <211> LENGTH: 21  
362 <212> TYPE: DNA  
364 <213> ORGANISM: Artificial Sequence  
368 <220> FEATURE:  
370 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer ✓  
374 <400> SEQUENCE: 15  
376 cttgaacaca gtaagtaacg g 21  
380 <210> SEQ ID NO: 16  
382 <211> LENGTH: 21  
384 <212> TYPE: DNA  
386 <213> ORGANISM: Artificial Sequence  
390 <220> FEATURE:  
392 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer ✓  
396 <400> SEQUENCE: 16  
398 gcttgactca attaaggcga c 21  
402 <210> SEQ ID NO: 17

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/868,118

DATE: 10/29/2001  
TIME: 13:09:41

Input Set : A:\002.00150.txt  
Output Set: N:\CRF3\10292001\I868118.raw

404 <211> LENGTH: 18  
406 <212> TYPE: DNA  
408 <213> ORGANISM: Artificial Sequence  
412 <220> FEATURE:  
414 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer ✓  
418 <400> SEQUENCE: 17  
420 acatgcttag ttaactcc 18  
424 <210> SEQ ID NO: 18  
426 <211> LENGTH: 29  
428 <212> TYPE: DNA  
430 <213> ORGANISM: Artificial Sequence  
434 <220> FEATURE:  
436 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer ✓  
440 <400> SEQUENCE: 18  
442 ggggtaccgc ttgactcaat taaggcgac 29  
446 <210> SEQ ID NO: 19  
448 <211> LENGTH: 40  
450 <212> TYPE: DNA  
452 <213> ORGANISM: Artificial Sequence  
456 <220> FEATURE:  
458 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer ✓  
462 <400> SEQUENCE: 19  
464 cttcagagat cagcttctgc tccatattaa tgatatagta 40  
468 <210> SEQ ID NO: 20  
470 <211> LENGTH: 22  
472 <212> TYPE: DNA  
474 <213> ORGANISM: Artificial Sequence  
478 <220> FEATURE:  
480 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer ✓  
484 <400> SEQUENCE: 20  
486 acacgatctc agccgtgtaa aa 22  
490 <210> SEQ ID NO: 21  
492 <211> LENGTH: 20  
494 <212> TYPE: DNA  
496 <213> ORGANISM: Artificial Sequence  
500 <220> FEATURE:  
502 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer ✓  
506 <400> SEQUENCE: 21  
508 aattaaccct cactaaagg 20  
512 <210> SEQ ID NO: 22  
514 <211> LENGTH: 40  
516 <212> TYPE: DNA  
518 <213> ORGANISM: Artificial Sequence  
522 <220> FEATURE:  
524 <223> OTHER INFORMATION: Description of Artificial Sequence: pcr primer ✓  
528 <400> SEQUENCE: 22  
530 ttcagaaatc aacttttggt ctctaagtct tctaccttgc 40  
534 <210> SEQ ID NO: 23  
536 <211> LENGTH: 7

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/868,118

DATE: 10/29/2001

TIME: 13:09:41

Input Set : A:\002.00150.txt

Output Set: N:\CRF3\10292001\I868118.raw

538 <212> TYPE: PRT  
540 <213> ORGANISM: Artificial Sequence  
544 <220> FEATURE:  
546 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide  
550 <400> SEQUENCE: 23  
552 Arg Pro Arg Thr Ser Ser Phe  
554 1 5  
560 <210> SEQ ID NO: 24  
562 <211> LENGTH: 7  
564 <212> TYPE: PRT  
566 <213> ORGANISM: Artificial Sequence  
570 <220> FEATURE:  
572 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide  
576 <400> SEQUENCE: 24  
578 Lys Pro Arg Thr Ser Ser Phe  
580 1 5  
586 <210> SEQ ID NO: 25  
588 <211> LENGTH: 7  
590 <212> TYPE: PRT  
592 <213> ORGANISM: Artificial Sequence  
596 <220> FEATURE:  
598 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide  
602 <400> SEQUENCE: 25  
604 Arg Pro Lys Thr Ser Ser Phe  
606 1 5  
612 <210> SEQ ID NO: 26  
614 <211> LENGTH: 7  
616 <212> TYPE: PRT  
618 <213> ORGANISM: Artificial Sequence  
622 <220> FEATURE:  
624 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide  
628 <400> SEQUENCE: 26  
630 Arg Pro Arg Thr Ser Ala Phe  
632 1 5  
638 <210> SEQ ID NO: 27  
640 <211> LENGTH: 6  
642 <212> TYPE: PRT  
644 <213> ORGANISM: Artificial Sequence  
648 <220> FEATURE:  
650 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide  
654 <400> SEQUENCE: 27  
656 Pro Arg Thr Ser Ser Phe  
658 1 5  
664 <210> SEQ ID NO: 28  
666 <211> LENGTH: 6  
668 <212> TYPE: PRT  
670 <213> ORGANISM: Artificial Sequence  
674 <220> FEATURE:  
676 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/868,118

DATE: 10/29/2001

TIME: 13:09:42

Input Set : A:\002.00150.txt

Output Set: N:\CRF3\10292001\I868118.raw

L:76 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:76 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:102 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3  
L:102 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3  
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3